

SIEMENS

MOBILETT Plus/ -E/ -M/ -HP

SP

Service

Repair Instruction

Replacement of firmware

Kit part no. 83 92 719 or
Kit part no. 83 92 743 or
Kit part no. 83 92 701

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English

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Chapter	Page	Revision
All	All	01

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

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Document required

Service Instructions for MOBILETT Plus/ -E/ -M/ -HP.

Components included in firmware kit for MOBILETT Plus/ -M Part no. 83 92 719

Article	Quantity	Part no.
Firmware V1.5	1	65 71 645
Firmware V1.7	1	70 24 073
Repair Instruction (this instruction)	1	SPR8-220.841.01.01.02

Components included in firmware kit for MOBILETT Plus E Part no. 83 92 743

Article	Quantity	Part no.
Firmware V1.5E	1	65 71 504
Firmware V1.7E	1	70 24 081
Repair Instruction (this instruction)	1	SPR8-220.841.01.01.02

Components included in firmware kit for MOBILETT Plus HP Part no. 83 92 701

Article	Quantity	Part no.
Firmware V0.8H	1	65 86 114
Firmware V1.0H	1	70 24 099
Repair Instruction (this instruction)	1	SPR8-220.841.01.01.02

NOTE

Two different firmware versions are included in each firmware kit. Depending on the existing firmware, one of the firmware versions must be selected. The other firmware version is not needed but can be used to update another unit.

Tools required

Standard tool kit.

Time required

Installation of firmware: approximately 1 hour for 1 CSE.

Safety information

Observe all safety information and protective measures in the document Service Instructions and pay special attention to the notes below.

For MOBILETT Plus/ -E/ -M



High voltage!

Life-threatening hazard of electric shock. Never work with the system open if the capacitor is charging or has just been charged.

The capacitor bank may still be charged even if the system is switched OFF and the line voltage cable is disconnected.

The capacitor bank must be considered charged until the protective measures listed in the document Service Instructions have been performed.

For MOBILETT Plus HP



High voltage!

Life-threatening hazard of electric shock. Never work with the system open if the batteries are still connected and the capacitor is charged. If the batteries are connected, the complete system is powered on!

The capacitors in M10 and M11 may still be charged even if the system is switched OFF and the line voltage cable is disconnected.

The capacitors in M10 and M11 must be considered charged until the protective measures listed in the document Service Instructions have been performed.

Important note

Due to the exchange of PROMs described in this document some of the functions have changed. These changes are described below.

MOBILETT	Present firmware	Replacement firmware	Functional changes
Plus/ -E/ -M	V1.6 (E)	V1.7 (E)	<ul style="list-style-type: none"> No functional changes.
	V1.4 (E)	V1.5 (E)	<ul style="list-style-type: none"> New anode rotation control. The anode braking time has been increased from 7 s to 9 s. Service programs P05 (automatic maintenance test), P12 (inverter and single tank test) and P13 (inverter test) have been removed.
	V1.2 (E)	V1.7 (E)	<ul style="list-style-type: none"> New anode rotation control. The anode braking time has been increased from 7 s to 9 s. Service programs P05 (automatic maintenance test), P12 (inverter and single tank test) and P13 (inverter test) have been removed.
	V1.1 (E)	V1.7 (E)	<ul style="list-style-type: none"> New anode rotation control. The anode braking time has been increased from 7 s to 9 s. Service programs P05 (automatic maintenance test), P12 (inverter and single tank test) and P13 (inverter test) have been removed. Max. preparation time has been increased from 10 s to 20 s.
Plus HP	V0.8H	V0.8H	<ul style="list-style-type: none"> No functional changes.
	V0.9H	V1.0H	<ul style="list-style-type: none"> No functional changes.

The following documents have been changed due to the exchange of PROMs for MOBILETT Plus/ -E/ -M:

- Function Description SPR8-215.850.01.02...
- Maintenance Instructions SPR8-215.831.01.02...
- Maintenance Protocol SPR8-215.832.01.02...
- Service Instructions SPR8-215.898.01.02...
- Wiring Diagram SPR8-215.051.01.06...

These (or later revision levels) are available on the Intranet.

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Exchange of PROMs

Different firmware is available for MOBILETT Plus/ -M, MOBILETT Plus E and MOBILETT Plus HP. Exchange PROMs in position I72, I66 and I74 as follows:

MOBILETT	Present firmware		Replacement firmware	
	FW version	Part no.	FW version	Part no.
Plus/ -M	V1.4	65 50 136	V1.5	65 71 645
	V1.6	65 71 710	V1.7	70 24 073
	V1.2	65 18 570		
	V1.1	62 38 567		
Plus E	V1.4E	65 50 201	V1.5E	65 71 504
	V1.6E	65 71 579	V1.7E	70 24 081
	V1.2E	65 18 646		
	V1.1E	64 12 295		
Plus HP	V0.8H	65 86 114	V0.8H	65 86 114
	V0.9H	65 86 189	V1.0H	70 24 099

Work routine

1. Mains voltage OFF.
2. Remove the system upper cover of the MOBILETT and the protection plate of the CPU board below.
3. Mains voltage ON.
4. Set position 1 on switch S1 located on board D1 to position ON (service mode).
5. Check installed firmware version on display.
6. Run the service programs P08 (Display the message history) and P16 (Show the exposure counter). The procedure is described in the document Service Instructions. The information in these programs will be lost after the PROMs have been exchanged. Write down the information in the attached tables in chapter "Appendix" and file it under register 10 in the Technical Manual.
7. Mains voltage OFF.
8. The PROMs in position I72, I66 and I74 are located on board D1 under the top cover. Select a firmware kit depending on the existing firmware version (see table above). Replace each PROM with a new PROM marked with the FW version and part number according to the table above.
9. Mains voltage ON. Ignore the error messages shown (e.g. USE 24, USE 25).
10. Mains voltage OFF.
11. Mains voltage ON. The unit should now start without any error messages.
12. Check firmware version now installed.



13. Run the adaptation program P10. The procedure is described in the document Service Instructions. The program is done when PASS is shown on the display. This will take approximately 20 minutes.
14. Set position 1 on S1 to position OFF.
15. Mains voltage OFF.
16. Remount the protection plate and the system upper cover.
17. Check the function by making one exposure.
18. In the chapters "Operation" (sub chapter "Exposure release switch") and "Display messages" (sub chapter "USE xx: Important message") in the **Instructions for Use**, check the maximum preparation time. If it is 10 seconds, change it to 20 seconds. Sign and write the date on the side. Inform the customer of the change if applicable.

P08

[illegible]

P16

Total amount of exposures.....

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